This listing of claims will replace all prior versions, and listings, or claims in the application.

Listing of the Claims:

Claims 1-10 (cancelled)

- 11. (Currently amended) A method for the preparation of a cross-linked hydrophilic coating of a hydrophilic polymer on a substrate polymer surface of a medical device, said method comprising the steps of:
- (i) providing a medical device having a substrate polymer surface;
- (ii) providing a polymer solution comprising 1-20% by weight of a hydrophilic polymer, 0-5% by weight of additive(s), and the balance of said solution being is comprised of a vehicle having at least one plasticizer with a solubility in water of at least 6 g/L, a boiling point above 210°C at 760 mmHg, and a Hansen $\delta_{\rm H}$ parameter of less than 20;
- (iii) applying said polymer solution to said substrate polymer surface;

- (iv) evaporating at least a part of the vehicle from said polymer solution present on said substrate polymer surface at a temperature of $25^{\circ}-100^{\circ}\text{C}$; and
- (v) curing said hydrophilic polymer without rewetting the medical device, wherein said curing occurs by irradiation and is the only irradiation step in the process.
- 12. (Currently amended) The method according to claim 11, wherein the polymer solution is applied to said substrate polymer surface in one a single application step.
- 13. (Previously presented) The method according to claim 11, wherein the vehicle comprises at least one solvent.
- 14. (Previously presented) The method according to claim 13, wherein the polymer solution consists of 1-20% by weight of the hydrophilic polymer, 0-5% by weight of additive(s), 1-40% by weight of plasticizer(s), and 50-95% by weight of solvent(s).
- 15. (Previously presented) The method according to claim 11, wherein the substrate polymer is polyurethane.

- 16. (Previously presented) The method according to claim 11, wherein the hydrophilic polymer is polyvinyl pyrrolidone.
- 17. (Previously presented) A medical device comprising a substrate polymer surface having thereon a cross-linked hydrophilic coating of a hydrophilic polymer, said medical device being obtained by the method of claim 11.
- 18. (Previously presented) A medical device comprising a hydrophilic coating of a cross-linked hydrophilic polymer, said coating comprising a hydrophilic plasticizer having a solubility in water of at least 6 g/L, a boiling point above 210°C at 760 mmHg, and a Hansen $\delta_{\rm H}$ parameter of less than 20.
- 19. (Previously presented) A medical device comprising a hydrophilic coating of a cross-linked hydrophilic polymer, said coating having a hydrophilic plasticizer with a solubility in water of at least 6 g/L, a boiling point above 210°C at 760 mmHg, and a Hansen δ_H parameter of less than 20, said medical device being prepared according to the method of claim 11.

- 20. (Currently amended) A method of use of a polymer solution for the preparation of a cross-linked hydrophilic coating, wherein said polymer solution includes 1-20% by weight of a hydrophilic polymer, 0-5% by weight of additive(s), and the balance of said solution being is a vehicle having a plasticizing effect on the hydrophilic polymer and including at least one plasticizer having a solubility in water of at least 6 g/L, a boiling point above 210°C at 760 mmHg, and a Hansen $\delta_{\rm H}$ parameter of less than 20, said method comprising the steps of:
- (a) applying said polymer solution to said substrate polymer surface;
- (b) evaporating at least a part of the vehicle from said polymer solution present on said substrate polymer surface at a temperature of 25°-100°C; and curing said hydrophilic polymer by irradiation without rewetting the medical device,

wherein said method includes only a single irradiation step.

21. (Previously presented) The method according to claim 15, wherein the hydrophilic polymer is polyvinyl pyrrolidone.

- 22. (Currently amended) A method for the preparation of a crosslinked hydrophilic coating of a hydrophilic polymer on a substrate polymer surface of a medical device, said method consisting of the steps of:
- (i) providing a medical device having a substrate polymer surface;
- (ii) providing a polymer solution having 1-20% by weight of a hydrophilic polymer, 0-5% by weight of additive(s), and the balance of said solution being a vehicle having at least one plasticizer with a solubility in water of at least 6 g/L, a boiling point above 210°C at 760 mmHg, and a Hansen $\delta_{\rm H}$ parameter of less than 20;
- (iii) applying said polymer solution to said substrate polymer surface;
- (iv) evaporating at least a part of the vehicle from said polymer solution present on said substrate polymer surface at a temperature of $25^{\circ}-100^{\circ}\text{C}$; and
 - (v) curing said hydrophilic polymer.
- 23. (Previously presented) The method according to claim 22, wherein the polymer solution is applied to said substrate polymer surface in one single application step.

- 24. (Previously presented) The method according to claim 22, wherein the vehicle comprises at least one solvent.
- 25. (Previously presented) The method according to claim 24, wherein the polymer solution consists of 1-20% by weight of the hydrophilic polymer, 0-5% by weight of additive(s), 1-40% by weight of plasticizer(s), and 50-95% by weight of solvent(s).
- 26. (Previously presented) The method according to claim 22, wherein the substrate polymer is polyurethane.
- 27. (Previously presented) The method according to claim 22, wherein the hydrophilic polymer is polyvinyl pyrrolidone.
- 28. (Previously presented) A medical device comprising a substrate polymer surface having thereon a cross-linked hydrophilic coating of a hydrophilic polymer, said medical device being obtained by the method of claim 22.
- 29. (Previously presented) A medical device comprising a hydrophilic coating of a cross-linked hydrophilic polymer, said

coating having a hydrophilic plasticizer with a solubility in water of at least 6 g/L, a boiling point above 210°C at 760 mmHg, and a Hansen δ_{H} parameter of less than 20, said medical device being prepared according to the method of claim 22.

- 30. (Currently amended) A method of use of a polymer solution for the preparation of a cross-linked hydrophilic coating, wherein said polymer solution includes 1-20% by weight of a hydrophilic polymer, 0-5% by weight of additive(s), and the balance of said solution being is a vehicle having a plasticizing effect on the hydrophilic polymer and including at least one plasticizer having a solubility in water of at least 6 g/L, a boiling point—above 210°C at 760 mmHg, and a Hansen $\delta_{\rm H}$ parameter of less than 20, said method consisting of the steps of:
- (a) applying said polymer solution to said substrate polymer surface;
- (b) evaporating at least a part of the vehicle from said polymer solution present on said substrate polymer surface at a temperature of 25°-100°C; and curing said hydrophilic polymer by irradiation,

wherein said method includes only a single irradiation step.

- 31. (Previously presented) The method according to claim 26, wherein the hydrophilic polymer is polyvinyl pyrrolidone.
- 32. (New) The method according to claim 11, wherein evaporating at least part of said vehicle takes place at a temperature of $70^{\circ}-100^{\circ}\text{C}$.
- 33. (New) The method according to claim 20, wherein evaporating at least part of said vehicle takes place at a temperature of 70°-100°C.
- 34. (New) The method according to claim 22, wherein evaporating at least part of said vehicle takes place at a temperature of 70°-100°C.
- 35. (New) The method according to claim 30, wherein evaporating at least part of said vehicle takes place at a temperature of 70°-100°C.